



24-AT-6005  
PATENT

*Handwritten:* 15/C, 1-28 B, Full R

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Challberg et al.

Serial No.: 09/597,113

Filed: June 20, 2000

For: CORE CONFIGURATION FOR A  
NUCLEAR REACTOR

Art Unit: 3641

Examiner: J. Keith

AMENDMENT

Commissioner for Patents  
Washington, D.C. 20231

In response to the Office Action dated September 18, 2002, please amend the above-identified patent application as follows.

IN THE CLAIMS

**RECEIVED**  
JAN 24 2003  
**GROUP 3500**

*Handwritten:* Sub D1, C1

1. (thrice amended) A core for a nuclear reactor comprising:  
a plurality of independent fuel bundles, each said independent fuel bundle comprising a handle to facilitate lowering said fuel bundle into said core; and  
a plurality of large control rods, each said control rod comprising four control rod blades extending radially from a central portion and arranged at right angles to each other, said blades defining four fuel bundle receiving channels, said control rods arranged in a plurality of staggered rows with only four independent fuel bundles in each said receiving channel and two sides of each of said four independent fuel bundles adjacent a control rod blade.

*Handwritten:* C2, Sub D2

6. (twice amended) A core for a nuclear reactor comprising a plurality of fuel cells, each said fuel cell comprising;

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